

## Chemistry Report for Case # P-18-0070

### General

**Submitter:** ArrowStar, LLC

**Contact:** Jay Bartley

**Contact Telephone No.:** (706) 277-2981 Ext.

**TS No.:** 642763

**Chemist:** Drake, Bethany

**Contractor Support:** Y

**PV Init (kg/yr):** [REDACTED]

**PV Max (kg/yr):** [REDACTED]

**Binding Option:** ☐

**Exposure-Based Review:** ☒

**Manufacture:** ☒

**Import:** ☐

**CAS Number:** [REDACTED]

**Chemical Name** [REDACTED]  
[REDACTED]

**Trade Name:** ARROPOL 36

**IES Order** [REDACTED]

**Generic Name:** Waste plastics,  
polyester, depolymd. with glycols, polymers with dicarboxylic  
acids

### Chemical Structure



### Physical Chemical Properties

**Molecular Formula:** [REDACTED]

**Molecular Weight:** [REDACTED]

**% < 500:** [REDACTED]

**% < 1000:** [REDACTED]

<b>MP:</b>	<b>MP Estimate:</b>
<b>BP:</b>	<b>BP Pressure:</b>
<b>BP Estimate:</b> >400	
<b>VP (Torr):</b>	<b>VP Estimate (Torr):</b> <0.000001
<b>Water Solubility (g/L):</b>	<b>Water Soluble Estimate (g/L):</b> 1000
<b>Log P:</b>	<b>Log P Estimate:</b> -1.20
<b>Physical State — Neat:</b> Liquid	<b>Physical State — Manuf:</b> Liquid

**Physical State — Processing:** [REDACTED]  
material

**Physical State — End Use:** Destroyed

### Additional Chemical Info

[REDACTED] Submitted  
Properties: BP > 230 °C (Sub. Est.); WS = Partially soluble; Flash Point > 125 °C (Sub. Est.); Density = 1.222 g/cc; Hydroxyl Number = 354.26 mg KOH/g; Acid Number = 0.84 mg KOH/g; Viscosity = 2200 cP; Number of OH Groups per Molecule = 2.11 (Sub. Est.). The MS and IR spectrum are included with the PMN submission. Estimated Properties: BP = 458 °C (EPI); VP = 4.5E-10 torr (EPI); WS = 1000 g/L (EPI); logP = -1.20 (EPI). The EPI estimations were performed for a component consisting of 1 equivalent each of [REDACTED]

### Uses

**Consumer Use?** No

**Use:**

for polyurethane

**Other Uses:**

**Reaction Description****Pollution Prevention Analysis(P2 Analysis:)**

None.

**Analogs**

Analogs:

**Comments/Telephone Log**

Artifact	Update/Upload Time
<div></div>	<div></div>
<div></div>	<div></div>